

A Numerical Analysis to the π and K Coupled-Channel Scalar Form Factor

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Abstract: A numerical analysis to the scalar form factor in the $\pi\pi$ and KK coupled-channel system is made by solving the coupled-channel dispersive integral equations by the iteration method. The solutions are found not to be unique. Physical application to the $\pi\pi$ central production in the $pp \rightarrow pp\pi\pi$ process is discussed based upon the numerical solutions we found.

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Key words: $\pi\pi$ interaction, the coupled-channel system of π and K, form factor

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